W7-X Logbook REST API for processing metadata and experiment data enrichment at the Wendelstein 7-X stellarator


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W7-X Logbook I / II

**Wendelstein 7-X**
- Complex system with many subsystems
- Large international team
- Large amount of experiment data
- Metadata needed for efficient experiment organization, operation, and data processing

**W7-X Logbook**
- New central logbook for the whole W7-X team
- Web browser UI / REST API (HTTP/JSON)
- Allows rich-text comments & contextual metadata
- Initial experiment logs automatically generated (by W7-X control software)
- Fast search index for full-text search and range queries
Experiences in the first operational phases

- Agile development together with the W7-X team
- REST API allows easy integration into user software & combination with other web services
- Became a crucial tool for W7-X operation & starting point for every analysis / data exploration